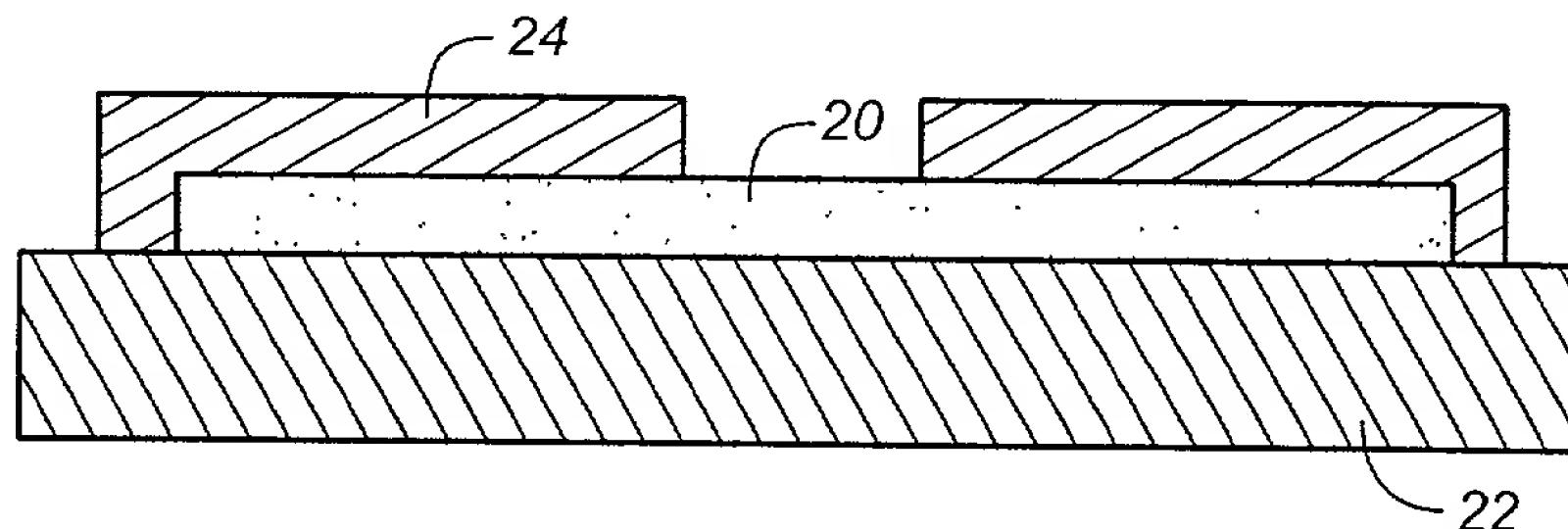
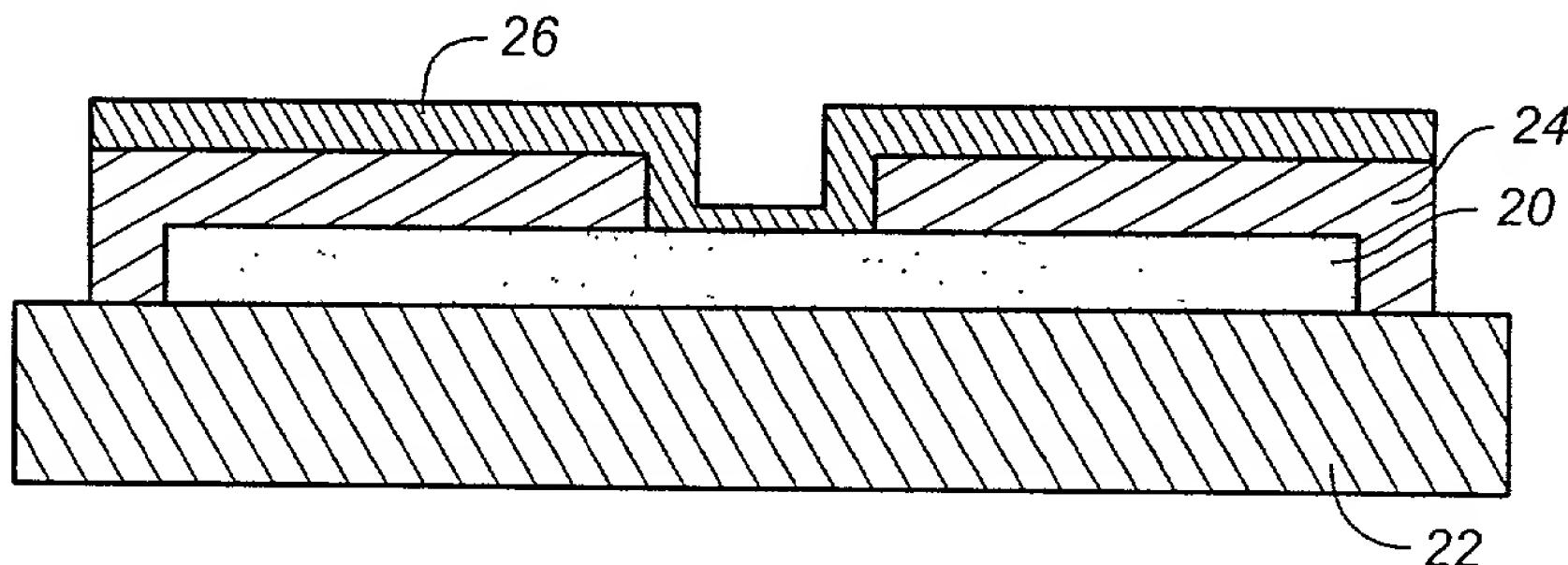


**FIG.\_1**

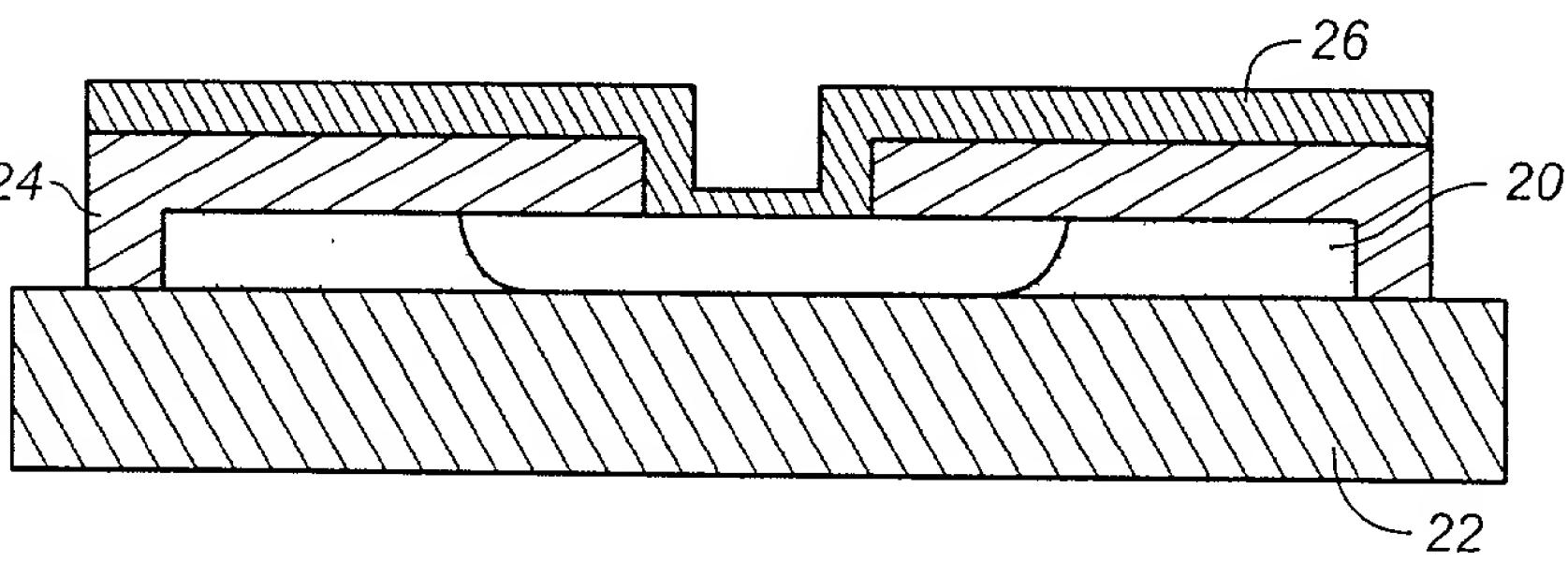
**FIG.\_2A**



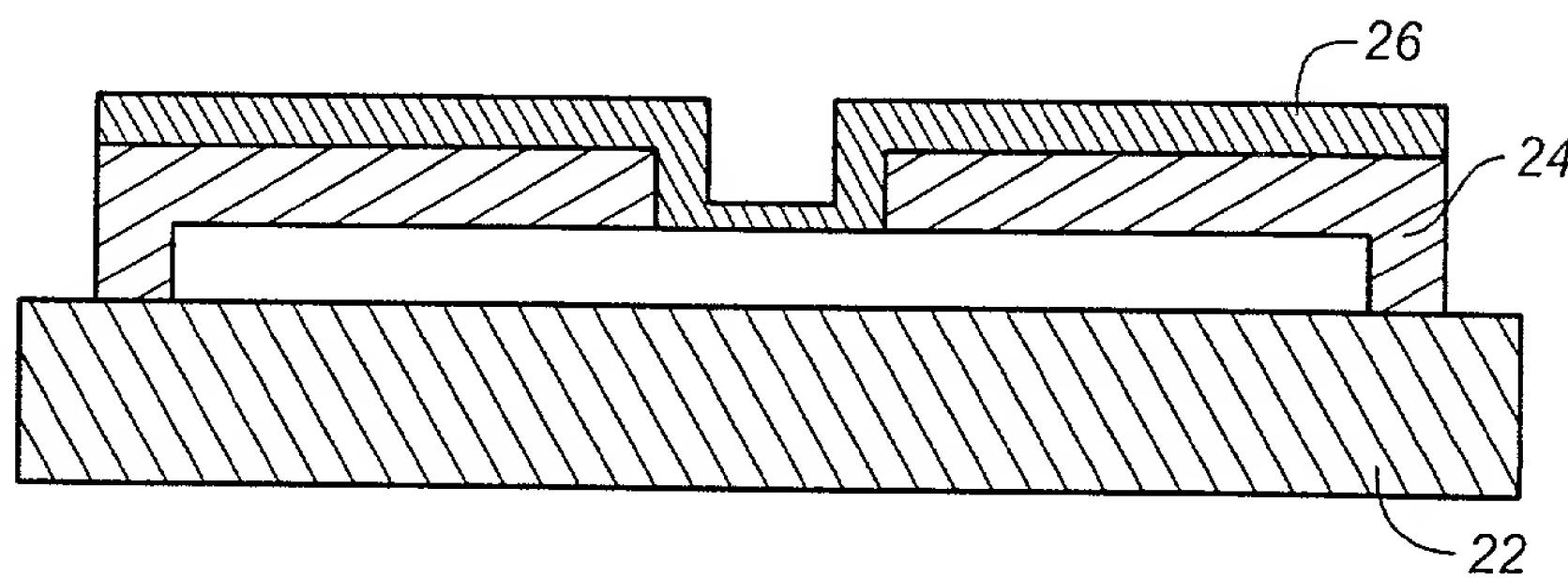
**FIG.\_2B**



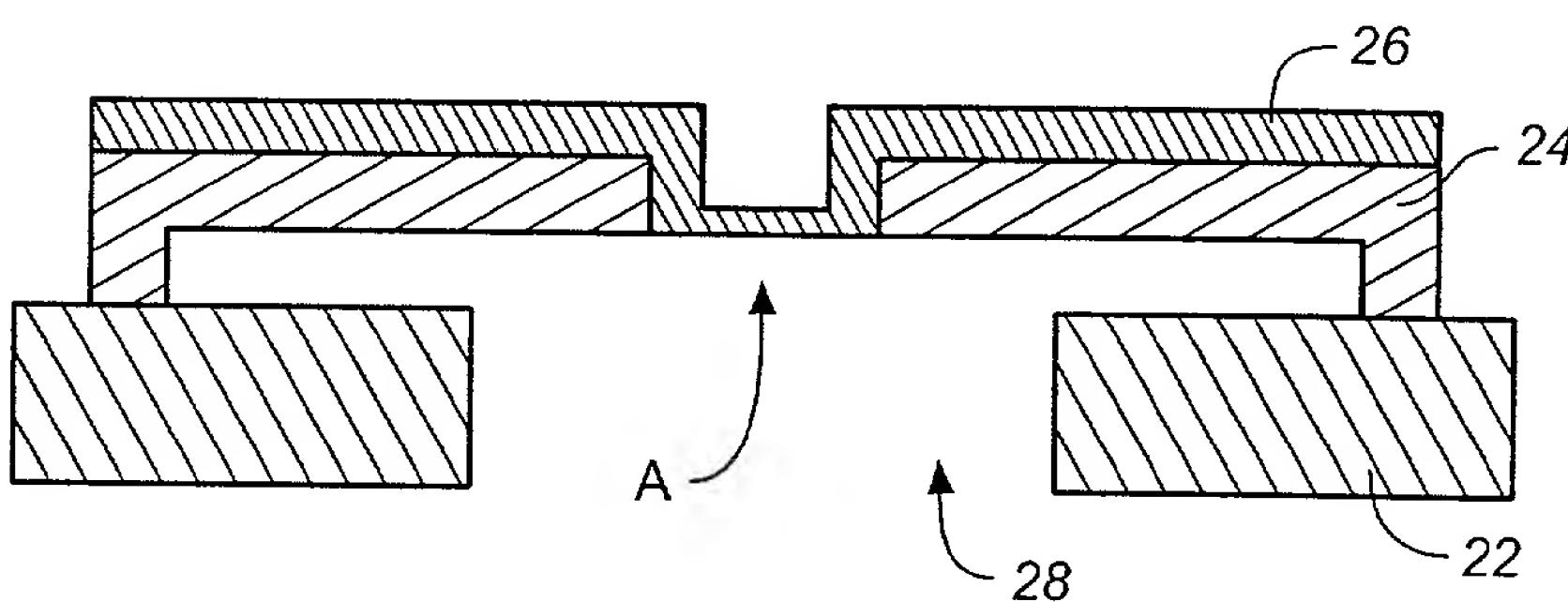
**FIG.\_2C**



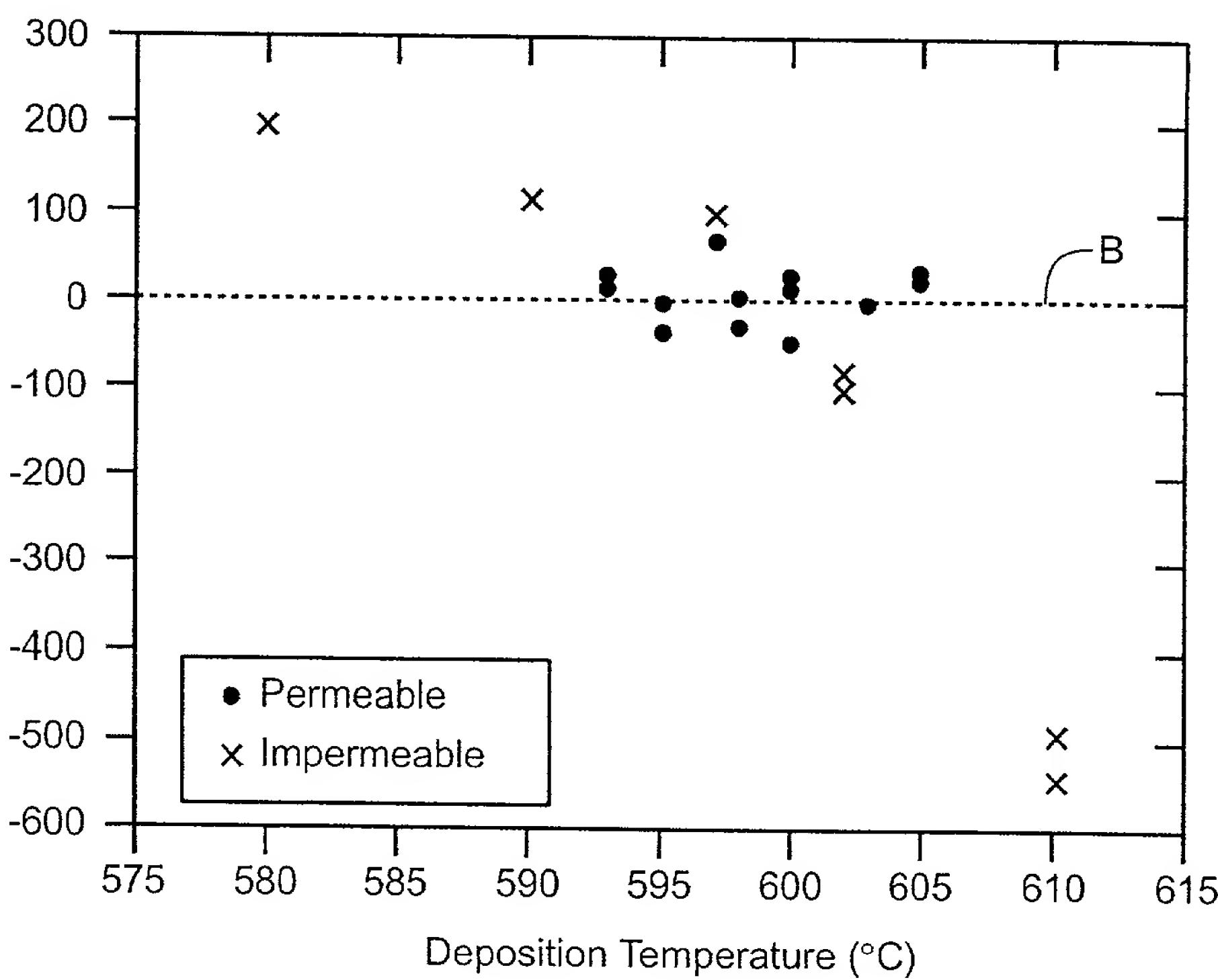
**FIG.\_2D**



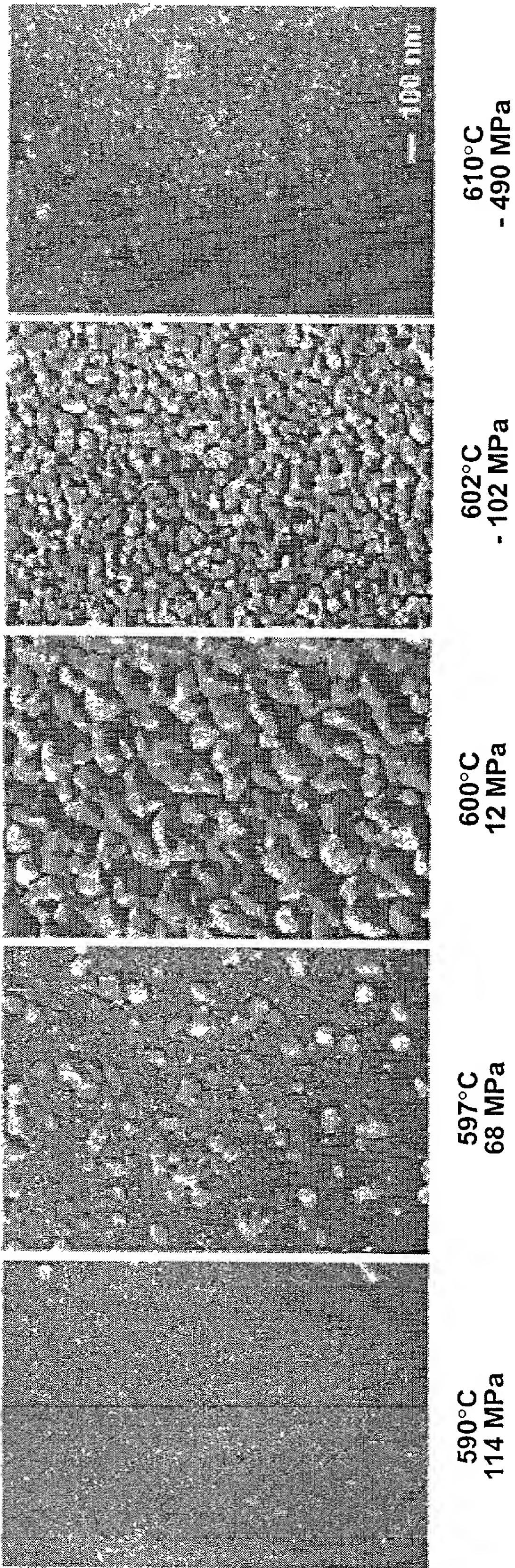
**FIG.\_2E**



Residual Stress (MPa)



**FIG.\_3**



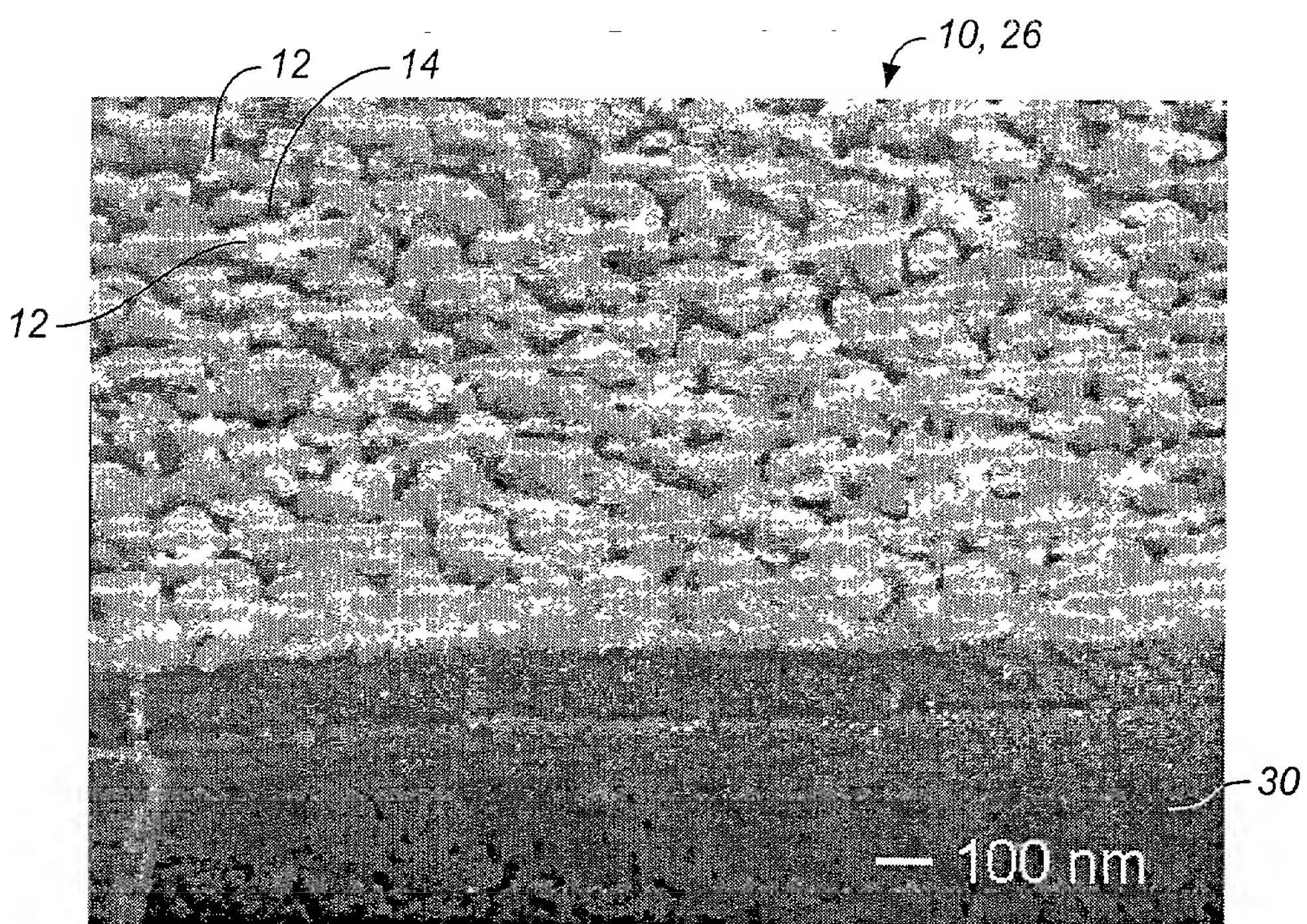
*FIG.\_4A      FIG.\_4B      FIG.\_4C      FIG.\_4D      FIG.\_4E*

THIN FILM MEMBRANE STRUCTURE

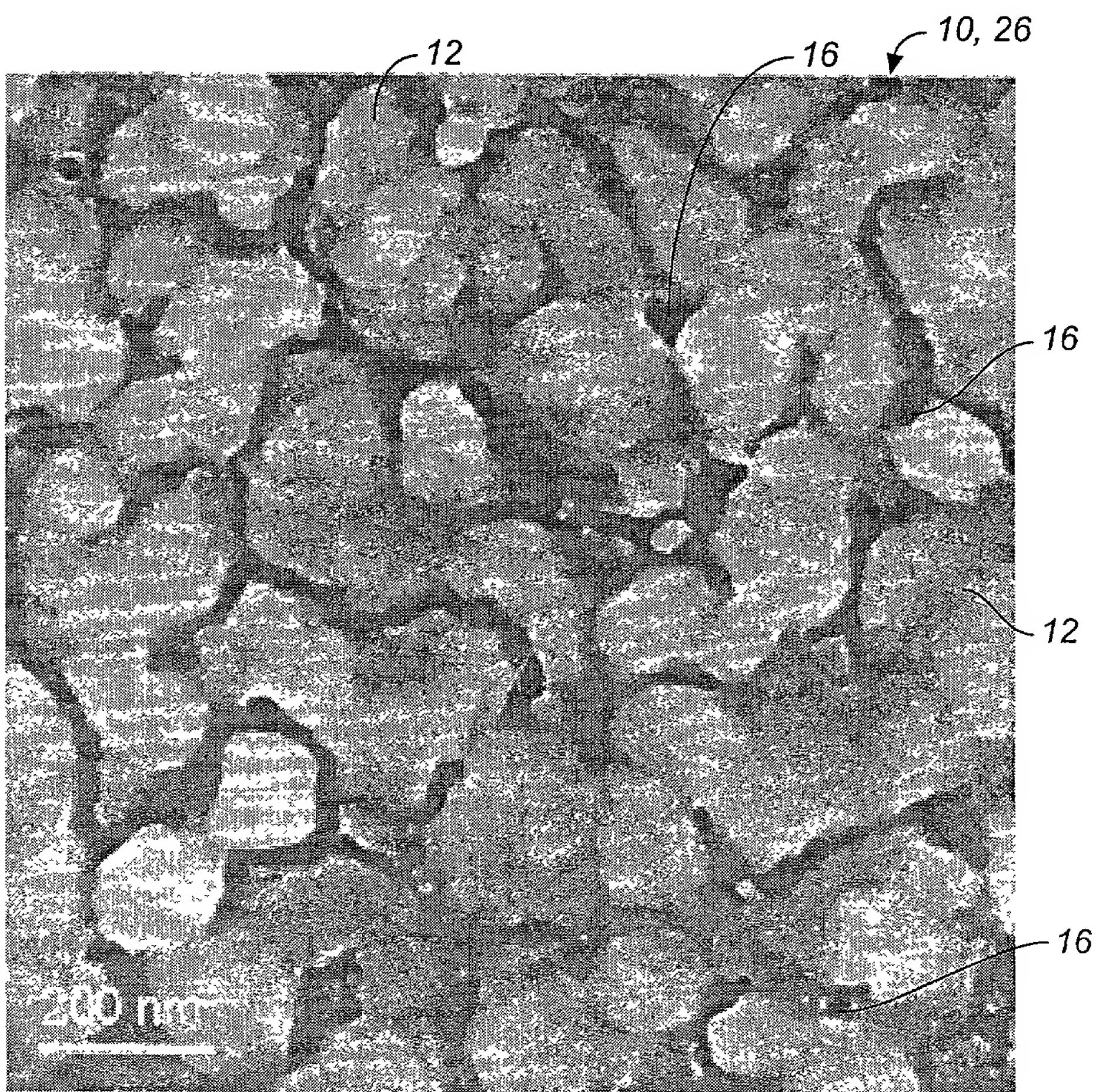
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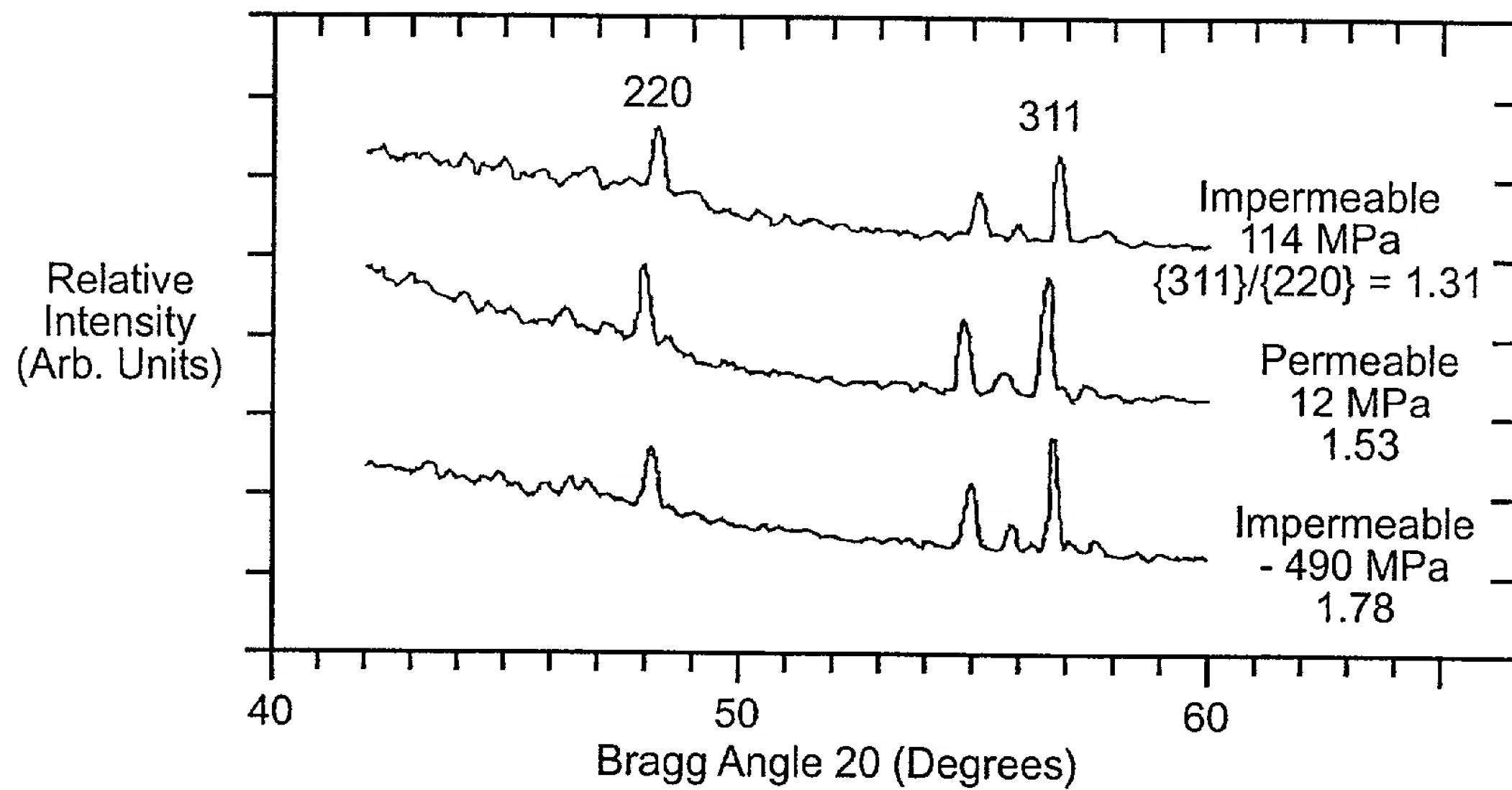
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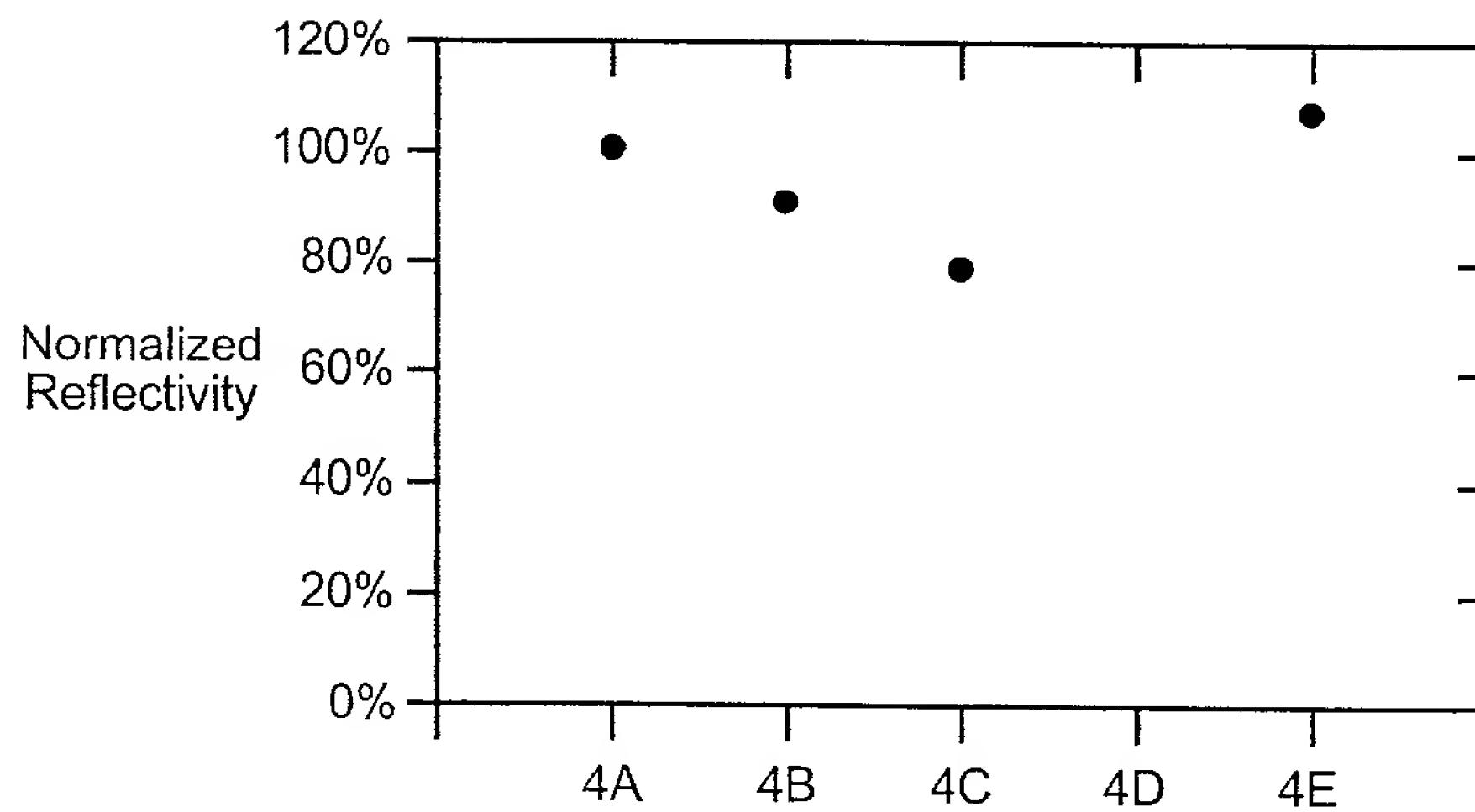
**FIG. 5**



**FIG. 6**



**FIG.\_7**



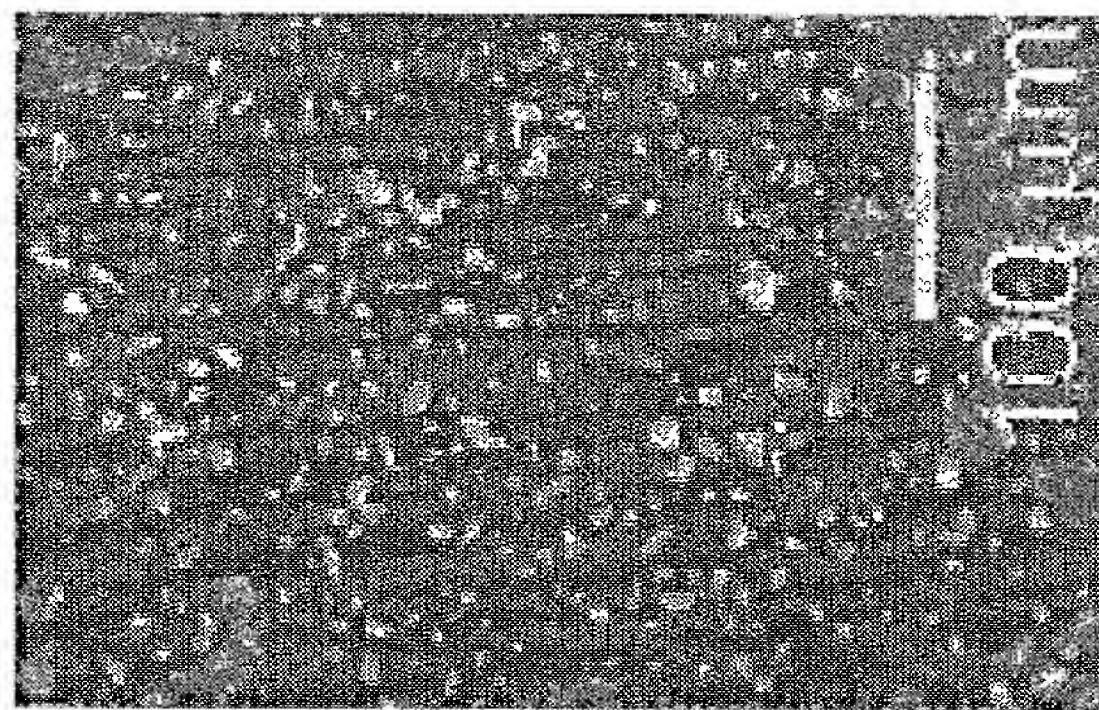
**FIG.\_8**

THIN FILM MEMBRANE STRUCTURE

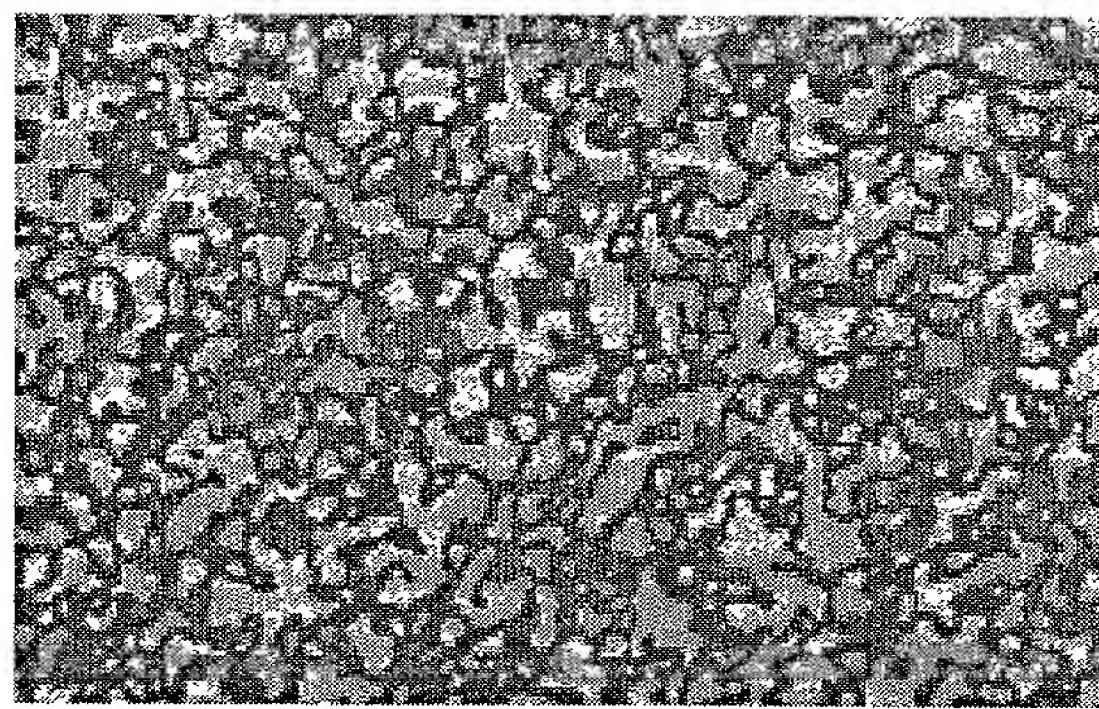
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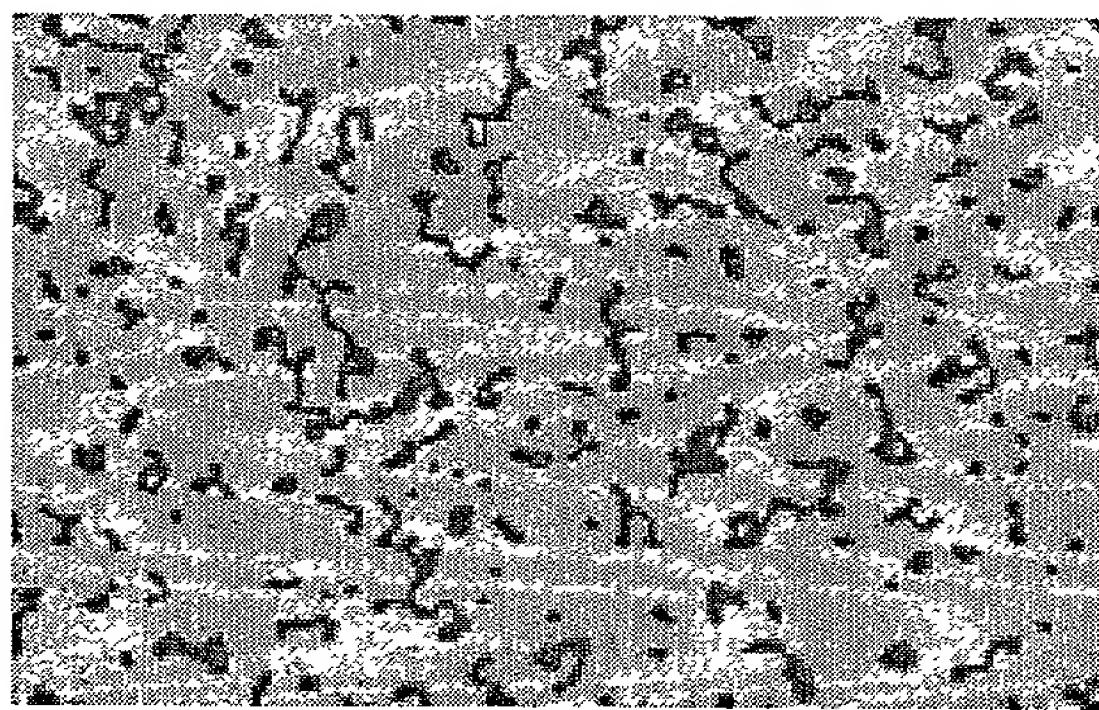
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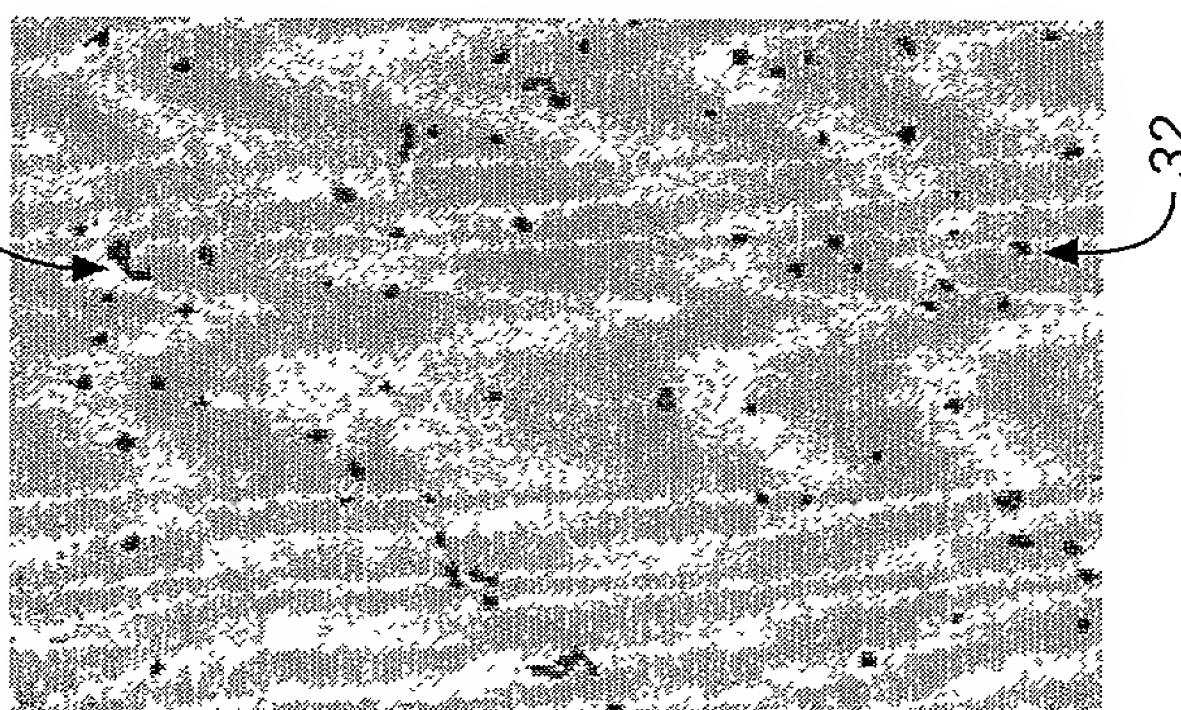
*FIG. 9D*



*FIG. 9C*

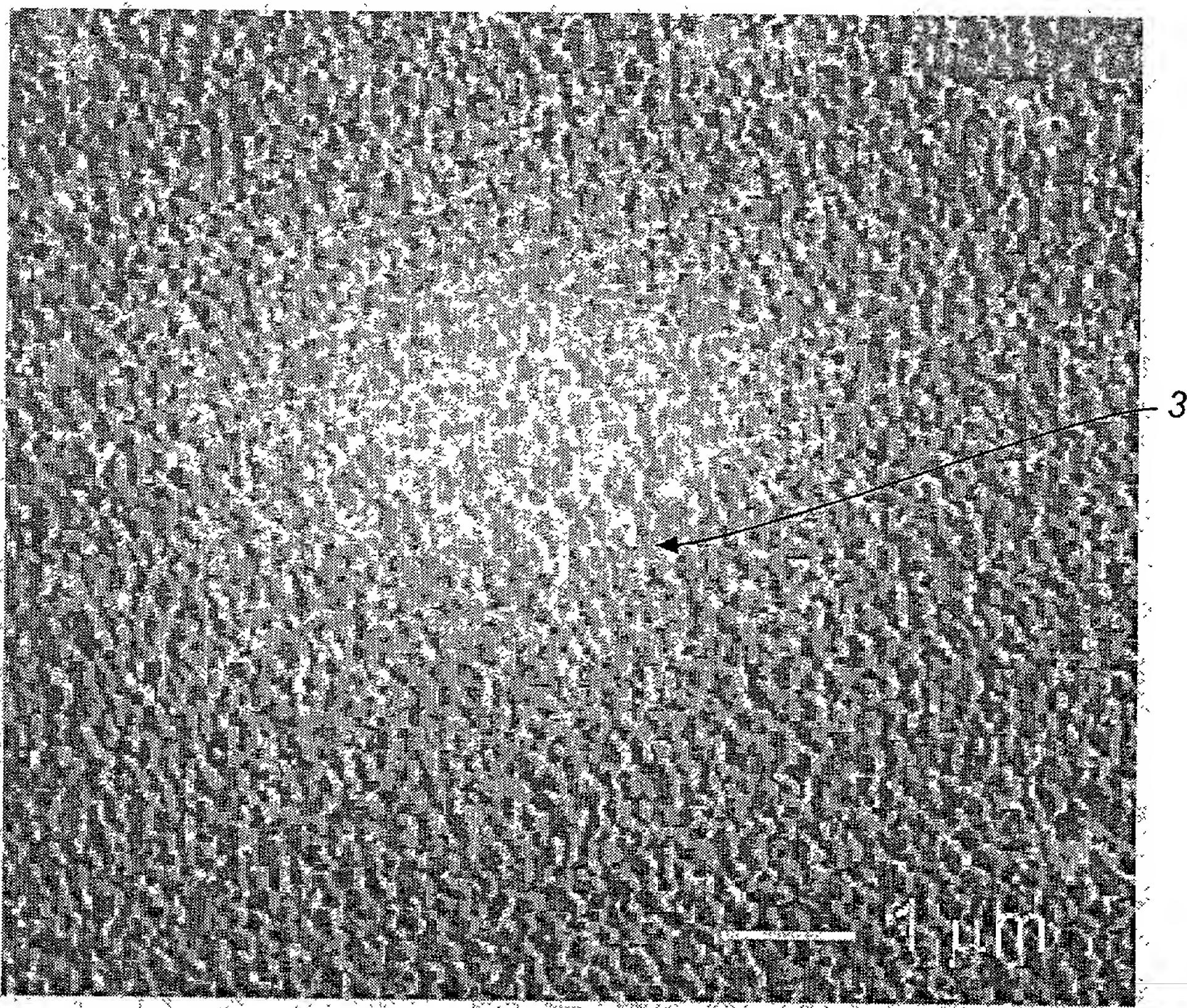


*FIG. 9B*

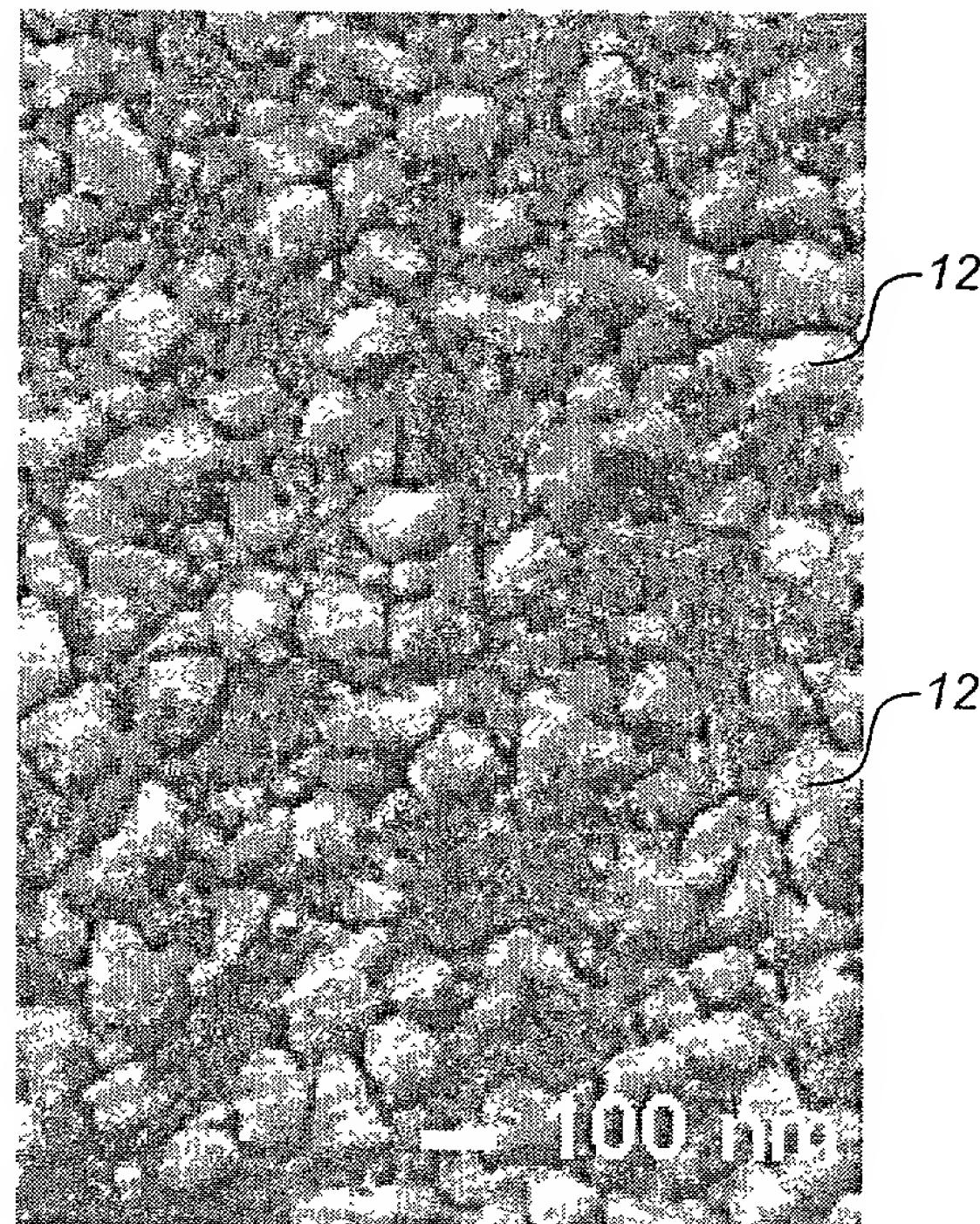


*FIG. 9A*

THIN FILM MEMBRANE STRUCTURE  
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**FIG.\_10**



**FIG.\_11**